## Pre-ordering Phase I - Transferring Files Electronically

The Commission in Docket No. 6352-U ordered BellSouth to provide AT&T by October 15, 1996 as part of the Phase I implementation, the ability to electronically transfer files of reserved telephone numbers. The Commission has reaffirmed this requirement as a part of the arbitration proceedings.

#### **Status**

## **Milestones Accomplished**

•	Requirements analysis and design begun	July 1, 1996
•	Requirements analysis complete	July 31, 1996
•	Design final	August 9, 1996
•	Coding begins	August 12, 1996
•	Coding complete	September 30, 1996
•	Customer testing started	October 1, 1996
•	Customer testing complete	October 14, 1996
•	Implemented to Production	October 15, 1996

## Milestones Ahead

Production and maintenance

Ongoing

The ability to electronically transfer files of reserved telephone numbers is now available to any local exchange carrier requesting such transfer.

## Phase II Interactive Pre-ordering and Interactive Direct Entry Ordering

The Commission in Docket No. 6352-U ordered BellSouth to provide AT&T as a part of the Phase II implementation, BellSouth's proposed Phase II solution by December 31, 1996 but no later than April 1, 1997, and that BellSouth is to implement an interactive direct order entry capability to be fully available by March 31, 1997.

On March 31, 1997 the Commission subsequently granted BellSouth an extension of this deadline through April 30, 1997.

#### **Status**

The BellSouth Reseller Pre-Order System and the BellSouth Reseller Interactive Direct Order Entry System have been combined into one project and is called the Local Exchange Negotiation System (LENS).

BellSouth conducted a CLEC training program and demonstration of the pre-ordering and ordering interfaces on April 1-3, 1997. More than 150 CLEC representatives attended training sessions that included demonstrations of the interfaces as well as hands on use of the EDI software package and the TAFI system.

## Milestones Accomplished:

•	Face to	face meeting with AT&T
---	---------	------------------------

- Begin staffing
- Provide system hours of operation to AT&T
- Provide "white paper" on Web Interface technology to AT&T
- Requirements analysis and design begun
- AT&T and BellSouth Joint Meeting
- Initial Requirements Completed (TN Reservation)
- Pre-order requirements completed
- Ordering requirements completed
- Design Complete
- Coding Complete
- Began user Friendly Pilot
- Unit Testing Complete

August 23, 1996 September 1996 September 6, 1996

September 6, 1996 September 16, 1996 October 25, 1996 November 4, 1996 December 23, 1996 February 12, 1997 February 28, 1997 March 24, 1997 April 8, 1997 April 14, 1997

## Phase II Interactive Pre-ordering and Interactive Direct Entry Ordering (cont'd)

#### Milestones Ahead:

\* Commercially Available April 30, 1997

Milestones Missed: Completed:

Unit Testing Complete (Targeted date March 26)
 April 14, 1997

Production System Ready (Targeted date March 31)
 April 30, 1997

#### Issues:

In the October 25, 1996 meeting, AT&T advised that they would not use the interactive Pre-order/Order System stating their objective for machine-to-machine interfaces developed on an as yet undefined national standard. BellSouth continues with its efforts to develop the interactive interface ordered by the Commission for use by other industry participants. BellSouth also participates in the national standards setting bodies to facilitate the development of national standards for pre-ordering and ordering of local service requests. BellSouth and AT&T have agreed to work together utilizing best efforts to develop permanent machine to machine electronic interfaces to be implemented by December 31, 1997.

AT&T's response to BellSouth's March 28, 1997 Monthly Surveillance Report describes the development of a third interface, Common Gateway Interface (CGI). This interface will exist as an alternative for those CLECs who want to devleop their own presentation systems for use with BellSouth's data and was described in BellSouth's testimony presented in the AT&T arbitration proceeding. BellSouth proposed this alternative in September, 1996 and has been working with AT&T on this alternative since it received AT&T's request for data in January, 1997. However, because the CGI alternative builds upon the LENS interface, firm specifications for the CGI interface cannot be provided until the LENS interface is finalized.

## Ordering - Electronic Data Interchange

The Commission in Docket No. 6352-U ordered that BellSouth is to make fully operational and available by December 15, 1996 the Electronic Data Interface capability for receipt and transmission of orders for services in BellSouth's General Subscriber Services and Private Line Tariffs. The Commission has reaffirmed this requirement as a part of the arbitration proceedings.

#### Status

The EDI ordering interface was ready on 12/15/96. BellSouth is working with and actively seeking testing partners.

This effort has two phases. The first phase consists of Electronic Data Interchange (EDI) for single line residential service, flat rate and measured rate business service (less than seven lines), Public Branch Exchange (PBX) and vertical services. The implementation of the second phase consisted of complex services that BellSouth determined could be mapped to EDI for production delivery on December 15, 1996.

For Phase I, BellSouth has worked with AT&T and AT&T's designated third party to define the necessary transaction sets, data segments, data elements and data requirements in order to develop the mapping necessary for translating data that will be exchanged via EDI. Prior to December 15, 1996, BellSouth implemented all negotiated software changes for Phase I. As a result, BellSouth is ready to accept EDI orders from AT&T for single line residence, PBX and vertical services.

AT&T comments on BellSouth's March 28, 1997 monthly surveillance report suggest that BellSouth EDI implementation did not include all tariffed services. However, this has never been a requirement. In its June 12, 1996 order in Docket 6352, the Commission found that "...it is imperative that a reseller have access to the same service ordering provisions, service trouble reporting and informational databases for their customers as does BellSouth." (emphasis added). BellSouth efforts relating to EDI have been based on this objective. BellSouth does not create orders for all services for its retail customers on a totally mechanized basis, nor are such orders always created on the initial contact with a customer. Many services, particularly complex services such as the MultiServ example raised by AT&T, require account team intervention which often results in manual order handling. Services requiring account team intervention therefore have not been mapped to EDI for CLEC customers.

The joint AT&T and BellSouth team has successfully completed syntax testing of the Phase I interface. End-to-end testing, where test orders are sent through the system, has been completed for a subset of Consumer orders. On February 10, 1997, AT&T moved into the Service Readiness Testing (SRT) phase. BellSouth considers this activity to actually place the interface into production as live production because actual customers are having their service ordered and provisioned using the EDI system.

## Ordering Electronic Data Interchange (cont'd.)

AT&T has committed that they will not send any type of Consumer orders into BellSouth's production environment unless that type of order has been successfully tested in the end-to-end phase. SRT for this subset of orders will last for either a period of 60 days or upon completion of 100 orders. Business orders remain in the end-to-end testing phase, pending receipt of test cases from AT&T. The SRT will be viewed as an evolving document during this phase.

BellSouth has provided AT&T with a Phase I Implementation Guide (dated 12/6/96). A Phase II Implementation Guide has also been published (Issue 1 dated 12/16/96, Issue 2 dated 12/31/96), and shared with AT&T as well as other companies wishing to become trading partners with BellSouth. AT&T and BellSouth met on January 30, 1997 to review the differences between Joint Implementation Agreement, Phase I and Phase II Implementation Guides An updated version of the BellSouth Implementation Guide (Issue 3 dated 02/14/97) has been published which incorporates feedback received during various review sessions.

In addition to meeting with AT&T, BellSouth continues to meet with other companies, including but not limited to Sprint, Cellular Holding, National Telecommunications of Florida, and DeltaCom. These companies have expressed an interest in reviewing the Implementation Guide and in discussing plans for utilizing the EDI Ordering Interface in the future.

## Milestones Accomplished

•	Joint EDI Ordering Committee planning meeting Joint EDI Ordering Committee working meeting Phase II planning begun Physical communications established Phase I testing begun Finalize the data requirements & logical mapping for Phase I	May 15-16, 1996 June 3-7, 1996 July 22, 1996 July 22, 1996 July 24, 1996 August 23, 1996*
•	Physical mapping of data elements Internal OSS coding complete	August 16, 1996 August 30, 1996
•	AT&T/BellSouth Phase I syntax testing begun	November 4, 1996
•	Phase II (release 1) requirements finalized	November 15, 1996*
•	EDI interface ready as ordered	December 15, 1996
•	Phase I Consumer Orders to SRT (BellSouth production)	February 10, 1997
•	Phase I Business Orders to SRT (BellSouth production)	March 10, 1997

<sup>\*</sup> Data requirements for the phase II (release 1 interface between BellSouth and the OLECs) have been finalized since the November report.

## Ordering - Electronic Data Interchange (cont'd.)

## Milestones Missed (AT&T initiated)

•	Trial agreement in place	August 30, 1996
•	Phase I, first production site	September 3, 1996
	(acceptance testing complete)	
•	Remaining sites in production	October 1-31, 1996
•	Phase II (release 1) development/testing complete	December 10,1996
•	Phase II (release 1) installation in production	December 13-14, 1996

#### Milestones Ahead

BellSouth continues to move forward with AT&T and other potential trading partners for EDI ordering interfaces.

BellSouth and AT&T worked to jointly develop EDI. However, BellSouth notified the commission and AT&T that due to AT&T delays, BellSouth was forced to move into Phase II development in order to meet the 12/15/96 deadline. Further, AT&T has asserted that BellSouth made "significant changes in basic coding philosophy." These changes are in fact new data elements that have come from OBF. AT&T has expressed an interest in moving toward these elements, and is meeting with BellSouth on 4/18/97 on this subject.

BellSouth worked with Harbinger, a translator software developer, to develop a user friendly EDI translation windows software package for Local Exchange Ordering. This product was demonstrated at the BellSouth CLEC Conference April 1 - 3, 1997.

## **Trouble Report Entry**

Ordered that "BellSouth is to complete the TAFI enhancements to allow full operation of the required access by March 31, 1997."

#### **Status**

The CLEC TAFI system was successfully tested and placed in production. On March 28, 1997, the system successfully generated a trouble report for a CLEC customer, establishing that the TAFI system works.

TAFI currently will support 65 simultaneous users, and a spare arrangement is in place. Capability for an additional 65 users will be in place on June 1, 1997. BellSouth will train two additional CLECs on TAFI the week of April 20, 1997. AT&T has expressed an interest in trialing TAFI and BellSouth is working to set up a LAN-to-LAN connection for that trial.

## Milestones Accomplished

•	Project team established	September 30, 1996
•	Design concept documented	October 4, 1996
•	Requirements documented	November 24, 1996
•	Design documented	January 10, 1997
•	Code Construction complete	February 28, 1997
•	Process Flows complete	March 14, 1997
•	BellSouth System Testing begins	March 17, 1997
•	Reseller Acceptance Testing begins	March 24, 1997
•	Trouble Report Entry system available	March 31, 1997

#### Milestones Ahead

Production and Maintenance ongoing. The TAFI interface is in production.

## **Daily Usage Data**

The Commission in Docket No. 6352-U ordered that BellSouth is to complete the work necessary so that it can provide unrated messages to AT&T by September 1, 1996. The Commission has reaffirmed this requirement as a part of the arbitration proceedings.

#### Status

## Milestones Accomplished:

•	Initiated planning for Daily Usage Data for OLECs	November 1995
•	Completed initial programming	March 31, 1996
•	Conducted internal testing with CLEC data	April - June, 1996
•	Deployed procedures in production environment	July, 1996
•	Provided test file to first CLEC	July, 1996

 Code, test and implement procedures to provide data to AT&T in unrated format, rather than the rated format that is produced currently September 5, 1996

#### Milestones Ahead:

Production and maintenance

Ongoing

The transfer of daily usage data is now available to any local exchange carrier requesting such transfer.

## **Customer Records - Mechanized access**

In the AT&T, MCImetro and Sprint arbitration proceedings, the Commission ordered the following:

The Commission directs that BellSouth expeditiously develop and deploy an on-line electronic means for AT&T, MCI and Sprint to receive customer service record data, with the information restricted to just the information that AT&T, MCI and Sprint needs for preordering, to appropriately protect customers' privacy. BellSouth shall file monthly reports with the Commission updating the activities under taken in the development and deployment of this on-line electronic interface, and shall demonstrate to the Commission that it meets AT&T, MCI and Sprint's needs but also contains safety provisions or restriction s to make sure that it safeguards customers' privacy in an appropriate manner. The Commission recognizes the Consumer Utility Counsel's concerns regarding privacy of customer information, and further directs BellSouth and AT&T, MCI and Sprint to communicate and work with the CUC in order to ensure that the arrangements they develop will meet these concerns. The Parties shall show their work with the CUC and the resulting arrangements to safeguard customer privacy when they demonstrate the electronic interface methodology to this Commission. Such demonstration, and the plan for deployment, shall be presented to the Commission for the Commission's review prior to deployment.

Docket No. 6865-U, Supplemental MCI Order, January 14, 1997 at pages 5-6. See also, Docket No. 6801-U, Supplemental AT&T Order, January 22, 1997 at pages 9-10 and Docket No. 6958-U, Sprint Order, January 14, 1997 at pages 11-12.

BellSouth is working on developing a procedure that is technologically viable, meets the Commission's order, and satisfies the concerns of the CUC.

## Milestones Accomplished

•	Establish an interdepartmental team to finalize technological options	12/18/96
•	Team meeting to evaluate technological options	1/6/97
•	CUC review of customer protection options	2/5/97
•	Invitation to Sprint, AT&T, MCI to join the Joint	
	Implementation Team*	2/97
•	Meetings with AT&T, MCI, Sprint	4/5/97
	Approval from AT&T, MCI, & Sprint of access to records methodology	4/11/97
•	Requirements developed	4/18/97

## Customer Records - Mechanized access (cont'd)

### Milestones Ahead

 Workplan for implementation developed; Dates for Design completion, implementation, and testing determined

4/22/97

• AT&T, MCI & Sprint final approval of all aspects of plan

TBD

<sup>\*</sup> This invitation was extended verbally to participants rather than through written communications. Meetings have been taking place with AT&T concerning the customer records issue.

## Closing

The next monthly surveillance report will be submitted on May 15, 1997.

### **CERTIFICATE OF SERVICE**

This is to certify that I have this day served a copy of the within and foregoing, Revised BellSouth Electronic Interfaces for Local Service Resellers Report and Motion for Extension of Time, upon all known parties of record, by facsimile and United States Mail, postage prepaid, addressed as follows:

Mr. Jim Hurt, Director Consumers' Utility Counsel 2 Martin Luther King, Jr. Drive Plaza Level East Atlanta, GA 30334

Mr. Tom Bond
Assistant Attorney General
Department of Law
40 Capital Avenue
Suite 132
Atlanta, GA 30334

Mr. David I. Adelman, Esq. Mr. C. Christopher Hagy, Esq. Sutherland, Asbill & Brennan 999 Peachtree Street, NE Atlanta, GA 30309-3996

Ms. Marsha A. Ward, Esq. Senior Counsel MCI Telecommunications Corp. Southern Region 780 Johnson Ferry Road Atlanta, GA 30342

Mr. James P. Lamoureux, Esq. AT&T Communications of the Southern States, Inc. Room 4060 1200 Peachtree Street, NE Atlanta, GA 30309

Mr. William Atkinson
Ms. Carolyn Roddy Tatum
Sprint Communications Co.
3100 Cumberland Circle
Atlanta, GA 30339

Mr. William Rice Long, Aldridge & Norman One Peachtree Center 303 Peachtree Street. NE Suite 5300 Atlanta. GA 30308 Mr. Richard M. Rindler, Esq. Mr. James C. Falvey Swidler & Berlin, Chartered 3000 K Street, N.W. Suite 300 Washington, D.C. 20007

Mr. Walt Sapronov Mr. Charles A. Hudak Gerry, Friend & Sapronov Three Ravinia Drive, Suite 1450 Atlanta, GA 30346-2131

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Suite 2200, Marquis Two Tower
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Mr. Dennis Lopach MediaOne 115 Perimeter Center Suite 1150 Atlanta, GA 30346

This 1st day of April, 1997.

Fred McCallum Jr.

## **ATTACHMENT 8**

May 19, 1997

Ms. Cindy Clark AT&T 1200 Peachtree St. NE Atlanta, GA 30308

Dear Cindy,

We appreciate the opportunity to demonstrate the functionality of the Local Exchange Navigation System to your associates. As you know, LENS is a newly developed system, and as such will require several iterations of enhancements before it can be considered a mature system. It is our desire and goal to provide functionality that mirrors our own service centers, which will require multiple, and sometimes frequent changes to LENS.

Your May 12th memo mentioned viewing a number of irregularities during the demo on May 5. The problems with LENS not displaying directional prefix and directional suffix information was corrected prior to the LENS hands-on sessions on May 13. I am aware of a minor problem, with LENS not displaying the RSAG valid city during the validation process for an inquiry,. However, the correct abbreviation is system populated on the Local Service Request during the firm order process. We will have the city discrepancy corrected prior to the June 30th release.

We have a number of LENS enhancements identified, however, not all have been analyzed and prioritized. We are willing to share the enhancements planned for the June, 1997 release with our customers, with the following caveat. The local service environment is ever changing, which sometimes necessitates that we change our priorities to comply with state regulatory mandates and to best meet the needs of our customers to provide the best possible service to the ultimate customer, the end user. As long as we have an understanding that what is shared is subject to change with little or no advance notice, we will be glad to share our planned enhancement schedule. I will provide a list of changes currently scheduled for the June release via a separate memo. We have not planned capabilities beyond the end of second quarter, to date.

Our current thoughts to provide notification to LENS users of planned upgrades will be via an informational letter. In a future phase of LENS, we plan to have this information available on-line via the release notes option. We also plan to distribute updated pages to the LENS user guide, to provide more than sufficient information that may be used as training.

As with any new system, it will be at least 6-9 months before the firm order portion can be considered stable. With the exception of displaying zip code, adding the ATLAS confirmation number, providing the capability to allow CLECs to assign house numbers for unnumbered addresses, and adding some fields specific to neighborhood directories and directory closing dates, I believe the inquiry or pre-order capabilities are stable. Adding zip code is scheduled for the June release and no dates have been determined for the other modifications. Of course, if the applications we access upgrade to provide additional functionality, LENS would be modified to take advantage of the added capabilities.

We currently have development, test/training and production systems which must be maintained. I believe adding a fourth environment not to be in the best interest of the LENS users. As stated previously, the majority of enhancements will impact the ordering capabilities in LENS, not the pre-order portions which AT&T plans to utilize. I would suspect the majority of LENS users would be anxious to have increased ordering capabilities made available to them as soon as they were tested and documented. I understand your training concern but again state the majority of changes would impact ordering, not the pre-order process, so at this time I don't believe we would be able to maintain multiple release levels in production.

I hope this addresses your concerns, but if not don't hesitate to contact me with additional LENS questions.

Sincerely,

Cassandra Daniels

CC: Linda W. Tate

# **ATTACHMENT 9**



**BellSouth Telecommunications, Inc.** 

504 528-2050

Victoria K. McHenry General Counsel – LA

Room 1870 365 Canal Street New Orleans, Louisiana 70130-1102

August 11, 1997

#### BY HAND DELIVERY

Ms. Susan Cowart
Administrative Hearings Division
Louisiana Public Service Commission
P. O. Box 91154
Baton Rouge, LA 70821

RE:

LPSC, ex parte

Docket Number U-22252

Section 271 Filing

Dear Ms. Cowart:

Pursuant to the Commission's July 28, 1997 Order in the captioned docket, I enclose for filing BellSouth's response to the filings made on August 4, 1997 by various parties in this docket. Please date stamp the attached copy and return to me for my files.

With kind regards, I am

Sincerely,

Victoria K. McHenry

VKM:spc Enclosures

cc: Service List (w/enc via Federal Express)

#89193

BellSouth Telecommunications, Inc. Louisiana Public Service Commission Docket No. U-22252 LPSC's Order Dated July 28, 1997 Item No. AT&T p. 1, q. 2 Page 1 of 1

**REQUEST:** 

It is unstable - changes are to be made monthly for the rest of the year per the BellSouth LENS Project Manager.

RESPONSE:

While changes will occur in the ordering functions over the next six to nine months, for its primary purpose of preordering, LENS is stable. Notices of LENS changes are sent out via a cover letter to the CLECs users noting the changes, as well as in updates to the LENS Users Guide, which was just reissued in July.

Speed dieling

BellSouth Telecommunications, Inc. Louisiana Public Service Commission Docket No. U-22252 LPSC's Order Dated July 28, 1997 Item No. AT&T p. 13, q. 8 Page 1 of 1

REQUEST:

BellSouth refuses to provide AT&T with information concerning the number and percentages which are being automated by flow through to LESOG or manually re-keyed by personnel in the LCSC.

RESPONSE:

AT&T does not need to know internal systems output measurements; what is i needed by AT&T is the outcome of the ordering process such as due dates and Firm Order Completions, which are provided to AT&T.

## **ATTACHMENT 10**

## **LENS Access Technical Specification**

## Access by a Client Application

#### 1. Overview

This document specifies the details of the interface that can be utilized by a Competitive Local Exchange Carrier (CLEC) to access the BellSouth Telecommunication's Local Exchange Negotiation System (LENS) from software emulating a Web Browser.

The LENS application can be accessed directly by other computer systems bypassing the need for a Web Browser. This paper contains specifications for a methodology for using an application client in place of browser to communicate with and obtain information from the LENS Web server.

The LENS application will provide the following functionality related to the ordering of BellSouth Telecommunications services by CLECs.

- Preorder/Inquiry
- Street Address Validation
- Telephone Number Reservations
- Due Date Calculation
- Service Availability Inquires
- Creation of an Local Service Request (LSR)
- Customer Service Record Retrieval future release
- View Firm Order Commit and Completion Notification
- View Order Status
- View LSR in Error
- Place Firm Order Request
- Change Existing Request

This document is based on the best information BellSouth Telecommunications (BST) has available at this time. Each release of LENS will be accompanied by a new version of this document. This document corresponds to the 4/22/97 release of LENS.

LENS is a Web-based application utilizing a Web Server to provide presentation of HTML code to remote browsers. It also includes a back-end application server that is

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accessed via CGI scripts. The remainder of this document provides technical details for the access to LENS from a client application other than a Web Browser.

## 2. General Interface Specifications

#### 2.1 Interface Overview

- 1. This interface is based on emulation of a browser. The interface is designed to be utilized by either Netscape Navigator 3.x or Internet Explorer 3.0.
- 2. The client application will be required to utilize the HTTP protocol to obtain each of the pages in the user interface flow and to respond accordingly.
- 3. The interface requires the use of cookies. This mechanism is used to provide continuity between the pages.

Our implementation of cookies is consistent with the original Netscape implementation of cookies as described on the Netscape Web Site at:

http://home.netscape.com/newsref/std/cookie spec.html

The information covered there will not be repeated. We will use the attribute/value-pairs (av-pairs) described there except for the secure attribute.

The Set-Cookie: header will be utilized and the information contained would be expected to be returned as described in the Netscape document

- 4. All data is returned in <INPUT>, <SELECT>-<OPTION>, <TEXTAREA> or <A> elements. These are sometimes called editable fields. The variable name or tag is contained in the NAME attribute of the <INPUT>, <SELECT> or <TEXTAREA> element. The value is contained in the VALUE attribute of the <INPUT> element, between the <OPTION> </OPTION> delimiters, or between the <TEXTAREA> </TEXTAREA> or <A> </A> delimiters.
- 5. The <HREF> and <FORM> elements contains the URL of the CGI that must be called next. The data expected by the CGI is contained within the editable fields within the scope of the <FORM>. Some of this data is in hidden INPUT fields. It is important to note that the values of hidden fields must not be modified.

## 2.2 Connectivity

1. The network connectivity to the LENS application is the Internet suite of protocols (TCP/IP, etc.)

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- 2. The protocol for the transfer of requests and responses is HTTP.
- 3. The connectivity to LENS can be through lan-to-lan connections, dial-up connections using PPP or through connections from the Internet.

## 2.3 Security

The security required will be dependent on the connectivity method utilized. Security for each of the three types of connectivity are discussed below

#### 2.3.1 Lan-to-Lan

Security for the lan-to-lan connection assumes a trusted network on the other end and does not require additional network security. A CLEC wanting to use the Web Server over a lan-to-lan connection can obtain an application ID which can be utilized for all connections from the client application to the Web Server. The client application will have to include in the initial logon response information that can be used to identify the originating CLEC employee, if necessary, for auditing and trouble shooting. All access requires a registered IP Address.

### 2.3.2 Dial-up

BellSouth requires that any user making a dial-up connection be authenticated utilizing a Secure ID card. This card, in connection with a user ID, has to be utilized before the connection is made to the TCP/IP in-dial connections. In addition, the client application will be required to logon to the Web Server before beginning a session.

#### 2.3.3 Internet

Any connection over the Internet will require the use of a security certificate obtained from a BellSouth designated certificate authority. In addition, all data sent back and forth will be encrypted using Secure Sockets Layer.

## 3. Application Specifications

This section of the document details the HTML page flows for each piece of ordering functionality, defines the data returned with each of the pages, and defines how the data is to be parsed. In addition any error messages are documented. The full pages for each output are not given, only parts relevant for access bypassing a Web browser. Specifically, the FORM elements, the editable elements within its scope, or any relevant hyperlinks on a page. Each NAME attribute in an editable field on the form is a variable name that may be required in the input string in the next step. Each VALUE attribute (or strings delimited by <OPTION> </OPTION>, <TEXTAREA> </TEXTAREA>, or <A> </A>) contains the value returned by that step in the application. All input and output lines are written in Courier font. Any variable fields are written in italicized Courier font. In order to input any data to the cgi server, a connection must be opened to the cgi server on the specified port. All input lines

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must be terminated by a carriage return and line feed. In the remainder of the document, it is assumed that all input lines are thus terminated. The output from the cgi server must be read in by the user's application program. Once the cgi server has sent the output, the connection to cgi-server is closed. After 30 minutes of time with no activity, the session is terminated. Any subsequent attempt to access the terminated session results in an empty page.

## 3.1 Input/Output Requirements for Establishing a Session

In this section the input/output requirements for establishing a session are provided. This is the precursor to all system access. The non-error flow is as follows: initial access (3.1.1), authentication and authorization (3.1.2), and selecting an action (3.1.3). In the case of any possible error response, the response and appropriate action are described.

#### 3.1.1 Initial Access

Initial access establishes a session in the LENS server.

## 3.1.1.1 Input Specification

```
GET InitialApplicationURL HTTP/1.0
User-Agent: agent name
```

Note: The InitialApplicationURL and agent name values will be assigned at a later time. agent name is a CLEC specific value.

## 3.1.1.2 Output Specification

The resulting page contains a form <FORM> to be submitted with the user name and password. These will be assigned to each CLEC at a later date on an as needed basis. Each simultaneous session established by a given CLEC must have a unique user name and password associated with it.

```
<FORM METHOD=post ACTION="AuthenticationURL">
<INPUT size=10 maxlength=10 type=text name="loginString">
<INPUT size=10 maxlength=10 type=password value=""
name="passwdString">
<INPUT size=10 maxlength=8 type=text name="NewPasswdString">
<INPUT size=10 maxlength=8 type=password value=""
name="NewPasswdString2">
<INPUT type=hidden value="" name="ErrorMessage">
```

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